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Name: Anushka Harshavadan Nevgi
Experiment: 2. Elimination of single line and multiple line comments for file
Class: TY CSE A, 31
Code:
#include <iostream>
#include <fstream>
#include <string>
using namespace std;
void removeComments(ifstream& inputFile, ofstream& outputFile) {
  char line[1000];
  bool insideBlockComment = false;
  int i:
  while (inputFile.getline(line, sizeof(line))) {
     while (line[i] != '\0') 
       if (!insideBlockComment && line[i] == '/' && line[i + 1] == '*') {
          insideBlockComment = true;
         i += 2;
       else if (insideBlockComment && line[i] == '*' && line[i + 1] == '/') {
         insideBlockComment = false;
         i += 2;
       else if (!insideBlockComment && line[i] == '/' && line[i + 1] == '/') {
          break; // Skip the rest of the line (single-line comment)
       }
       else {
          outputFile.put(line[i]); // Write the non-comment character
         i++;
       }
     outputFile.put('\n'); // Write a newline at the end of the processed line
int main() {
  string inputFileName, outputFileName;
  // Get the input and output file names from the user
  cout << "Enter the input file name: ";
  cin >> inputFileName;
  cout << "Enter the output file name: ";
  cin >> outputFileName;
  ifstream inputFile(inputFileName);
  if (!inputFile) {
     cout << "Error opening input file!" << endl;</pre>
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return 1;
 ofstream outputFile(outputFileName);
 if (!outputFile) {
   cout << "Error opening output file!" << endl;
   inputFile.close();
   return 1;
 // Remove comments from the input file and write the cleaned code to the output file
 removeComments(inputFile, outputFile);
 // Close the files after processing
 inputFile.close();
 outputFile.close();
 cout << "Comments removed and output written to " << outputFileName << endl;
 return 0;
C:\Users\squ\Desktop\second.exe
Enter the input file name: Untitled1.cpp
Enter the output file name: new.cpp
Comments removed and output written to new.cpp
[*] Untitled1.cpp second.cpp [*] new.cpp
     #include <iostream>
     using namespace std;
  3 □ int main() {
 4
          // This is a single-line comment
          cout << "Hello, World!" << endl; // Print greeting
  5
  6
          cout << "This is a C++ program!" << endl;</pre>
  7
          // End of the program
  8
          return 0;
 9
 10
 Untitled1.cpp second.cpp [*] new.cpp
      #include <iostream>
      using namespace std;
  3 □ int main() {
            cout << "Hello, World!" << endl;
  4
  5
            cout << "This is a C++ program!" << endl;</pre>
  6
            return 0;
  7
  8
```